

## ABSTRACT OF THE INVENTION

[0051] In crude oil fractions, fossil fuels, and organic liquids in general in which it is desirable to reduce the levels of sulfur-containing and nitrogen-containing components, the process reduces the level of these compounds via the application of heat, an oxidizing agent and, preferably, sonic energy. The invention is performed either as a continuous process or a batch process, and may further include optional steps of centrifugation or hydrodesulfurization.